

**ABSTRACT**

A hand-mounted device for obtaining a sample of blood from the scalp of a fetus and for measuring the pH of the blood sample includes a lancet for incising the scalp of the fetus, a capillary for obtaining a drop-sized sample of blood and a pH electrode within the capillary for analyzing the pH of the blood. Optionally, a motorized actuator may be provided for automatically advancing and withdrawing the lancet and the capillary. The pH measuring device includes an isolating mechanism, in the form of an everting bell-shaped member, an inflatable balloon member or an expandable funnel member, and a flushing/aspiration lumen for clearing the distal region of the device of amniotic fluid while in use.